# CDC's Role in Cytology Proficiency Testing

An update

#### CDC's Activities

- cooperative agreement developed three computer PT programs
- contract evaluated glass and computer PT against work performance
- department developed a computer-based PT program

#### Public Law 100-578

"periodic confirmation and evaluation of the proficiency of individuals involved in screening or interpreting cytological preparations, including announced and unannounced on-site proficiency testing of such individuals to take place to the extent practicable under normal working conditions."

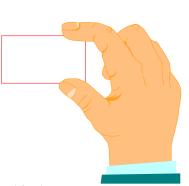
October 31, 1988

### CLIA Regulations

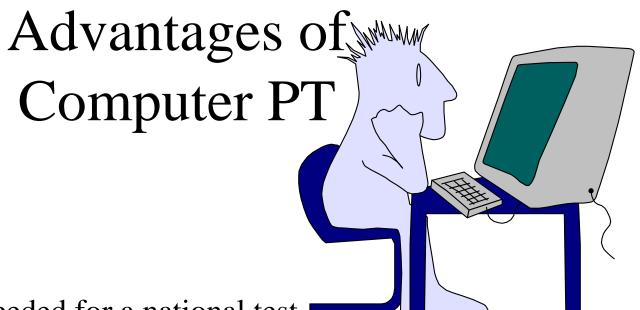
- annual test is examination of 10 glass slide test set in 2 hours
- laboratory ensures that individuals are tested annually

Because of statutory requirement for "normal working conditions" the current regulations specifies glass slides.

# Limitations of Glass Slides



- unable to collect the sufficient number of glass slides
- difficult to standardize tests
- prohibitive cost and resources needed to reference slides



- fewer slides needed for a national test
- easier to standardize tests
- images do not fade or deteriorate

## Cooperative Agreement

- American Society of Clinical Pathologists
- New England Medical Center
- Thomas Jefferson University

# Purpose of Cooperative Agreement



- encourage development of computer PT
- evaluate the acceptability of computer PT

## Cooperative Agreement Response to Evaluation

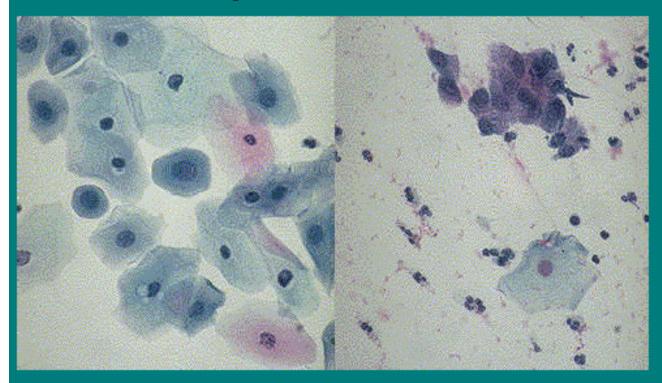
N = 155 (23 pathologists and 132 cytotechnologists)

- 68% liked taking a computer PT
- 92% adequate time frame for test
- 43% selection of cells appropriate
- 39% quality of images adequate

## Cooperative Agreement Results

	Pass Computer PT	Fail Computer PT	Totals
Pass Glass PT	39	19	58
Fail Glass PT	12	6	18
Totals	51	25	76

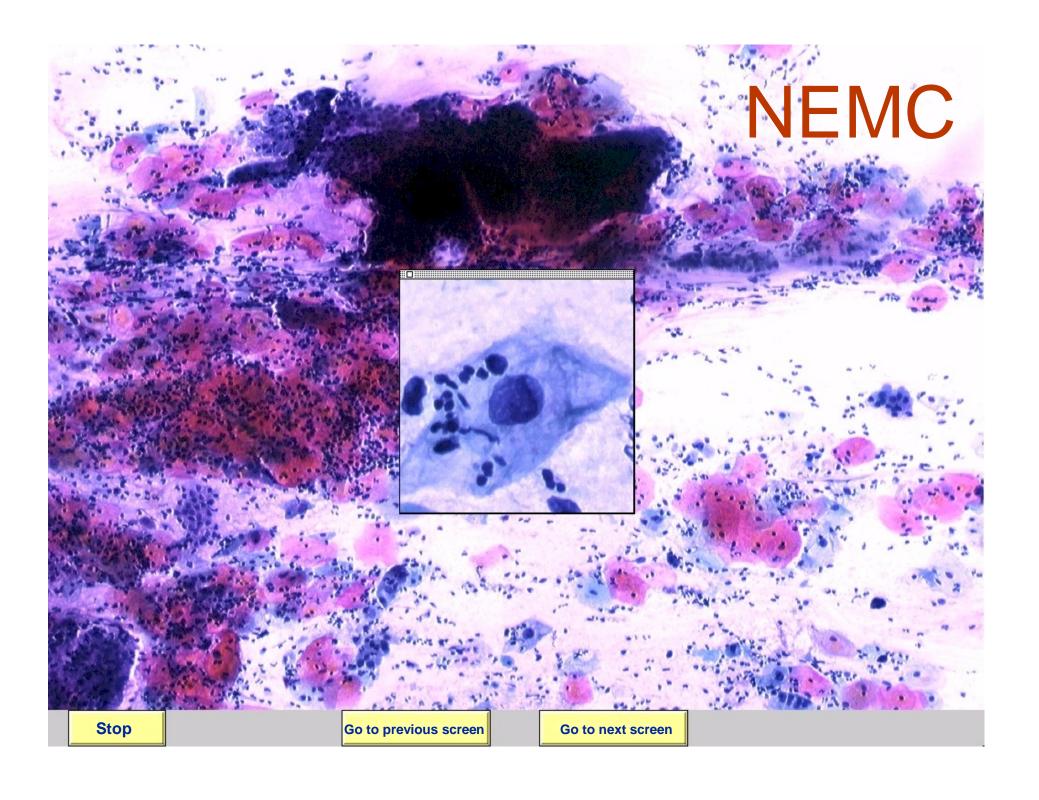
These cells observed in a cervical sample from a 47-year-old woman on day 22 of her menstrual cycle should be classified as:



- 1) unsatisfactory
- 2) normal/infectious/repair
- 3) LSIL
- 4> HSIL

Stop <u>Iime</u> <u>Help</u> <u>Review</u> <u>Item 1</u> <u>Previous</u> <u>Next</u>

## ASCP



### Contract

Analytical Sciences, Inc..

- awarded January 1995
- completed July 1997



- compare glass slide PT and computer-based PT to recent work performance
- uses a rescreen of 500 slides for comparison

#### Contract Protocol

#### National sample

- 85 study participants
- randomly chosen
- results available pending publication

## CDC Prototype Computer PT

Developed using suggestions from the cooperative agreement

- test locator skills
- view high and low magnifications of all cells
- improve navigational tools for viewing image
- high resolution with true color
- control of focal planes
- verification of answers before submission

## Demo of Computer PT Program